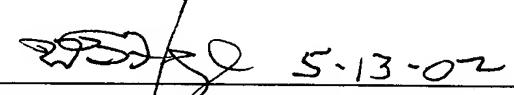


was mislabeled as FIG. 7K. Accordingly, proposed drawing changes are attached to this amendment in which FIG. 7K has been relabeled as FIG. 8. In addition, references to FIG. 7K in the specification have been amended to refer to FIG. 8 in order to conform the drawings with the written specification. It is respectfully submitted that these amendments do not add new matter to the present application.

If there are any questions concerning this amendment, or the application in general, then the examiner is urged to contact the undersigned by telephone in order to expedite prosecution.

Respectfully submitted ,

**THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.**

 5-13-02
William F. Heinze, Reg. No. 36,161

100 Galleria Parkway
Suite 1750
Atlanta, Georgia 30339-5948
(770) 933-9500

Docket No. 10010880-1

Approved
8/19/02
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ANNOTATED VERSION OF MODIFIED

TITLE/SPECIFICATION/ABSTRACT TO SHOW CHANGES MADE

The following is a marked up version of the amended claims. Amend the following claims by adding the language that is underlined ("__") and by deleting the language that is enclosed within brackets ("[]"):

Page 13, line 1 through page 13, line 3.

FIG. 7A-7[K] J show the state diagram of FIG. 3 with controller transitions for recovering from any of the group of four undetermined controller states shown in FIG 6.

Page 21, line 10 through page 21, line 18.

For non-uniform ground bounce, where the entire boundary scan chain 210 is not uniformly affected, the recovery method shown in FIGS. 7A-7[K] J may be difficult to implement because the entire boundary scan chain will not necessarily be in the same state when the vector data is being shifted in. For example, if the entire chain 210 (FIG. 2) is not in the SHIFT-DR state shown in FIGS. 7C and 7G, then some of the data will not get shifted into the appropriate target locations. Consequently, after a non-uniform ground bounce followed by the state transitions shown in FIGs. 7A-7J, the entire boundary scan chain will not be fully re-initialized to the desired data values.

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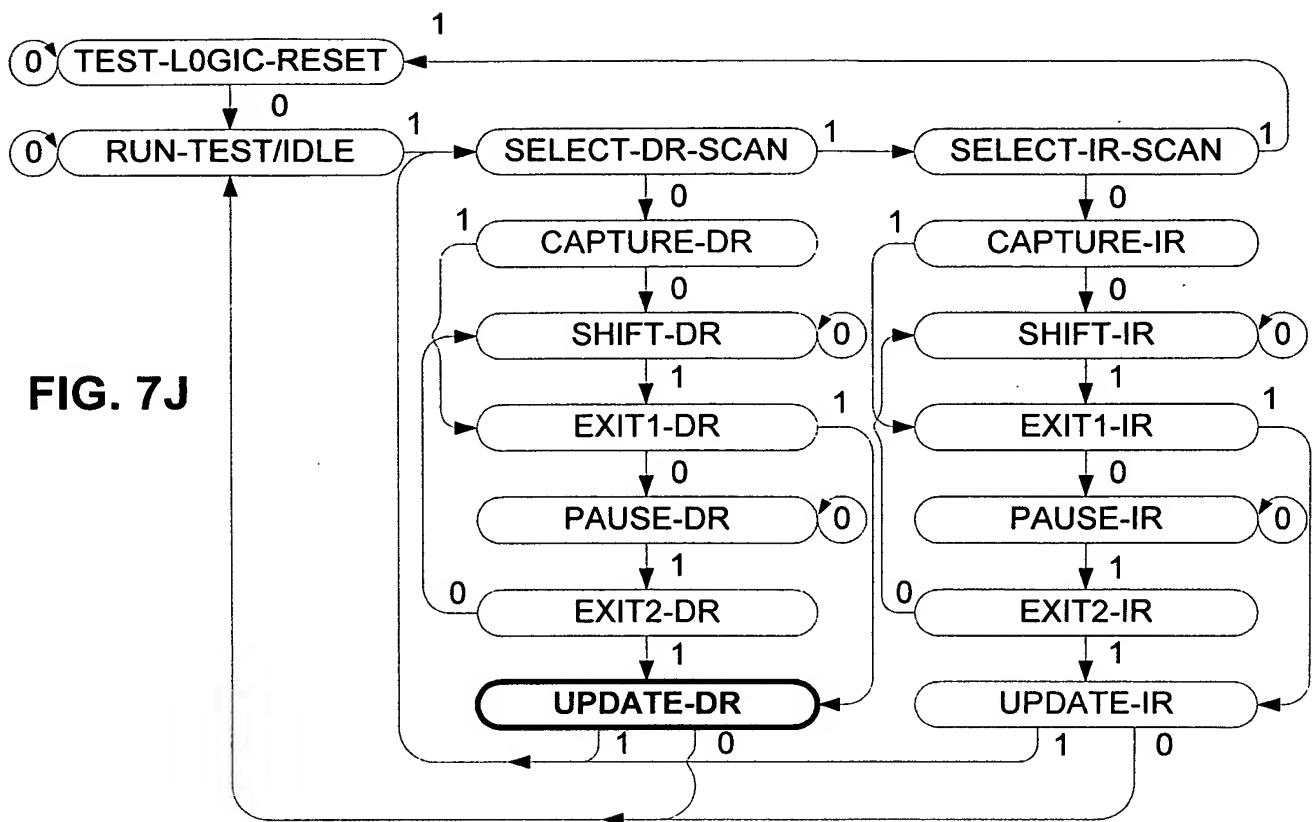


FIG. 7J

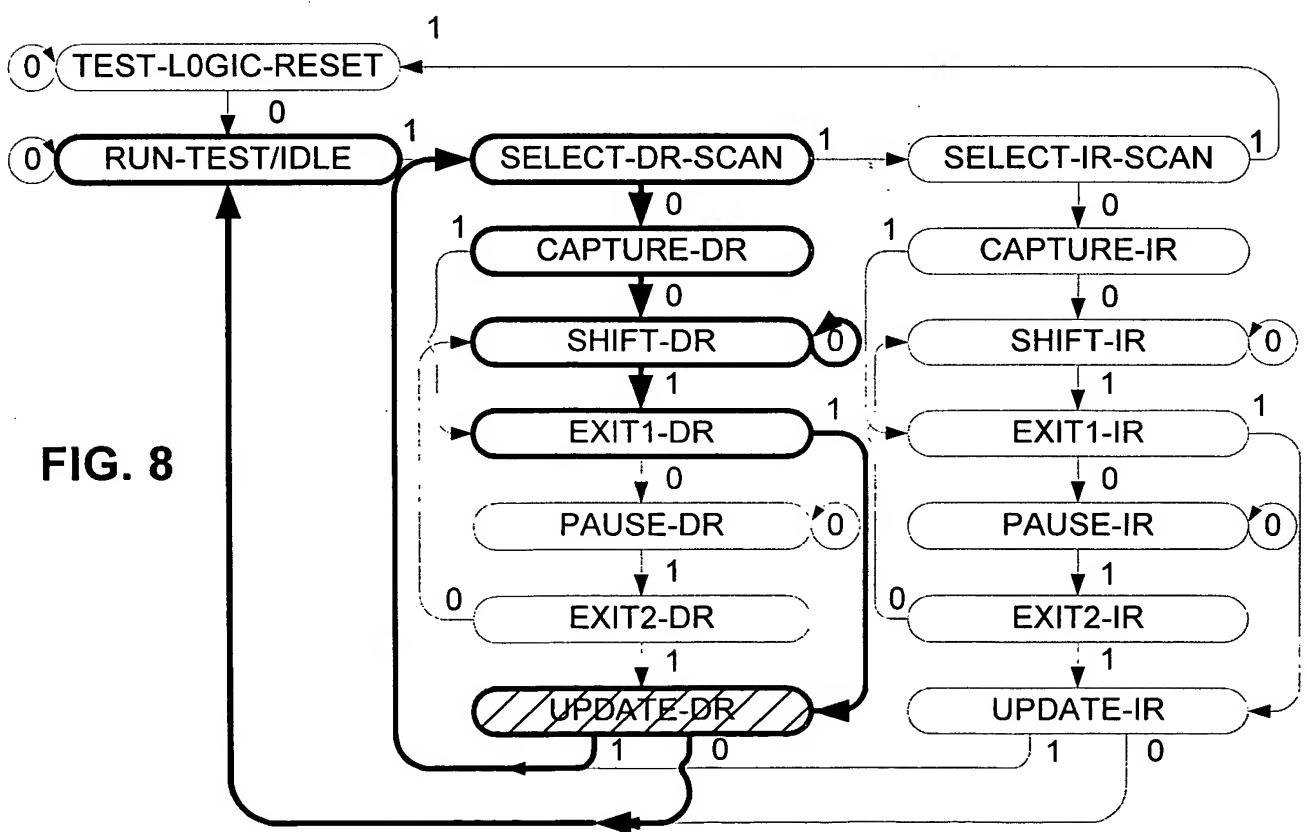


FIG. 8